

Figure 1: Sample Protected Storage Grid deployment

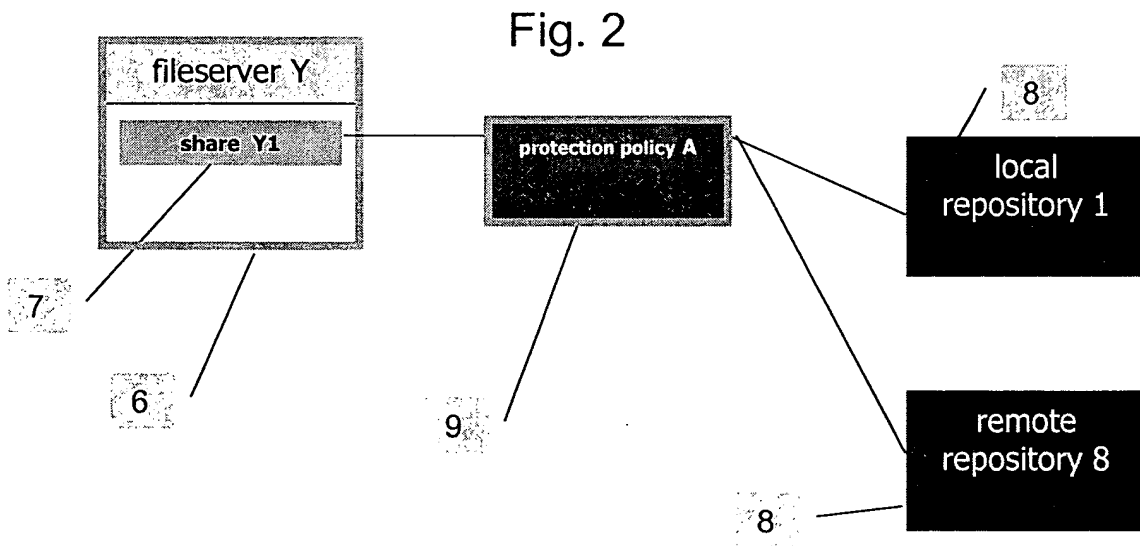


Figure 2: Protection policy

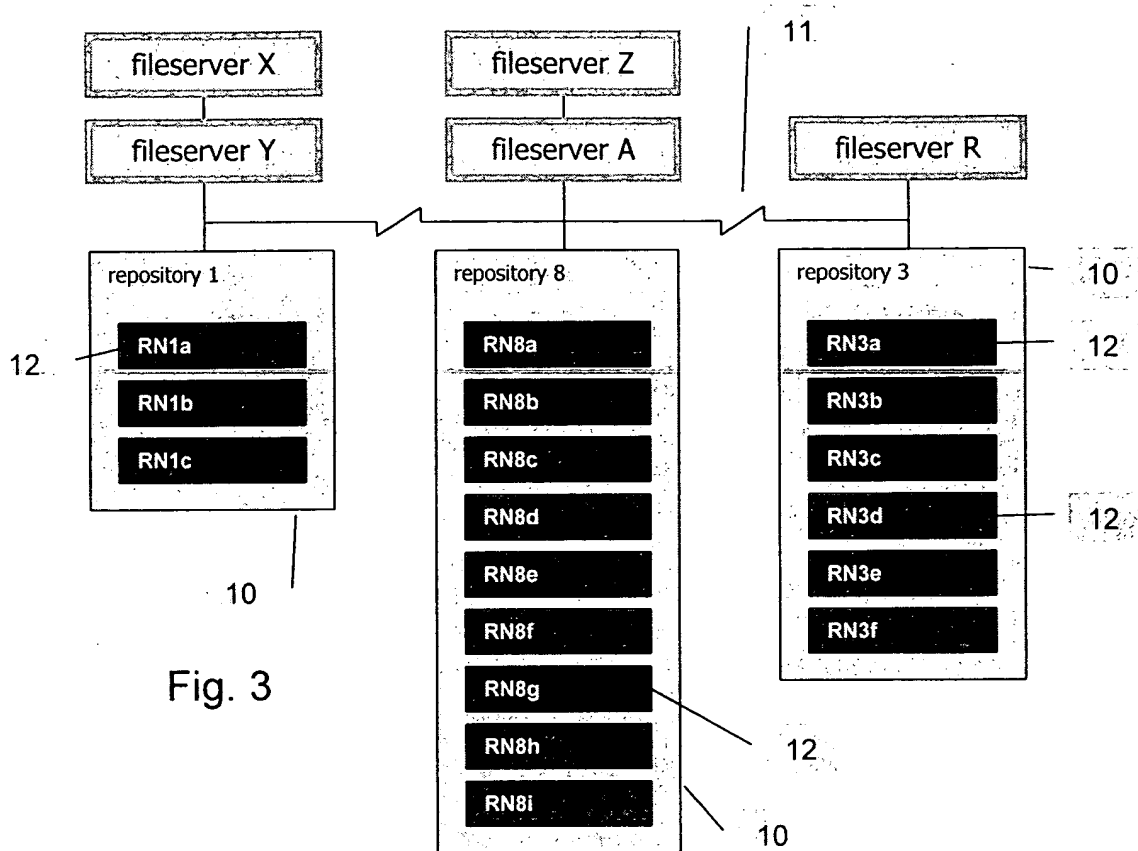


Fig. 3

FIG 3: Repository Nodes within Repositories

Fig. 4

The screenshot displays the 'Protection Policy' configuration window. On the left, a sidebar contains tabs: 'General', 'CIFS Sharing', 'NFS Sharing', 'FTP Sharing', and 'Protection Policy'. The 'Protection Policy' tab is active. The main area is divided into sections: 'Policy Identification', 'Protection Management', 'Version Management', and 'Advanced Options'. Numbered callouts (13-21) point to specific settings: 13 points to the 'Protection Policy' tab; 14 points to the 'Policy Identification' section; 15 points to the 'Backup Frequency' dropdown; 16 points to the 'Version Management' section; 17 points to the 'Keep Version History' checkbox; 18 points to the 'Version Compression' dropdown; 19 points to the 'Keep only one daily version after 7 days' checkbox; 20 points to the 'Purge all versions of files that are deleted from this share 7 days after they are deleted' checkbox; and 21 points to the 'Caching Level' dropdown.

**General**

CIFS Sharing

NFS Sharing

FTP Sharing

**Protection Policy**

**Policy Identification**

Share: GP\_MarketingMarcom2

Protect this share: ☒

Protection Policy Name: marcom2

Description: 2 Local, 0 Remote

User Data: D135

**Protection Management**

Backup Frequency: 1 Hour

Replicas: 2 Replicas in New York/Hudson

1 Replicas in New York/3 Charles

0 Replicas in Boston

**Version Management**

Keep Version History ☒

Version Compression: Delta Compression

Version Compaction: ☒ Keep only one daily version after 7 days

☒ Keep only one weekly version after 4 weeks

☒ Keep only one monthly version after 12 months

☒ Keep only one version after 2 years

**Advanced Options** Hide

☐ Purge all versions of files that are deleted from this share 7 days after they are deleted.

Caching Level: High

FIG 4: Protection Policy

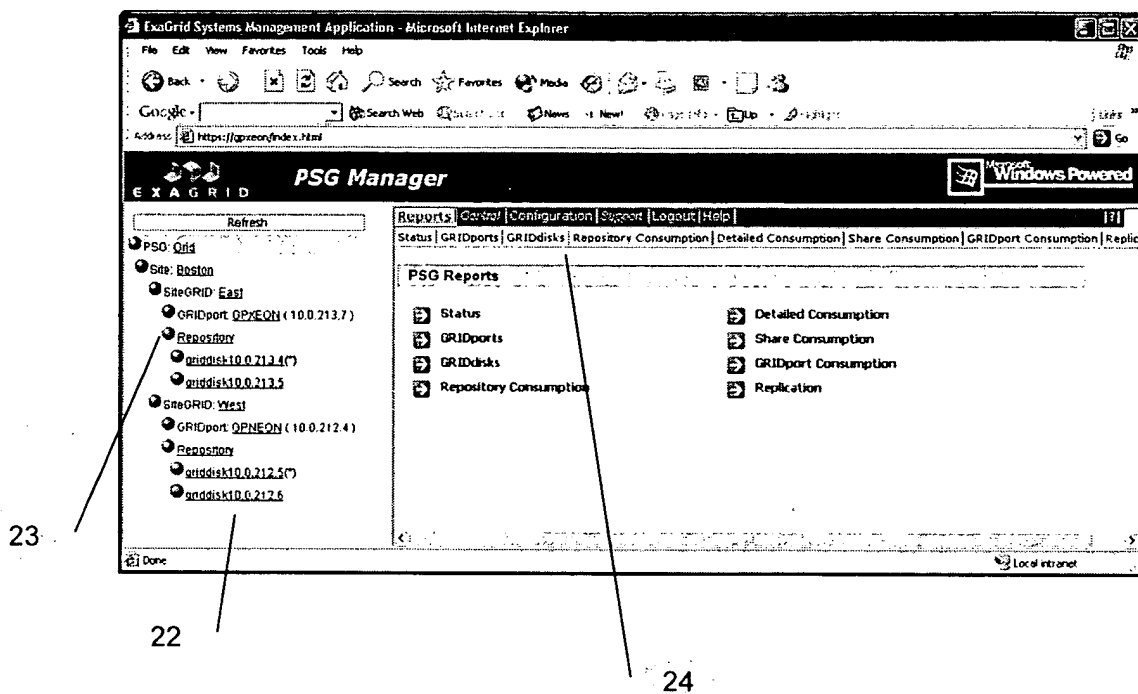


FIG 5: Web-based Management Application

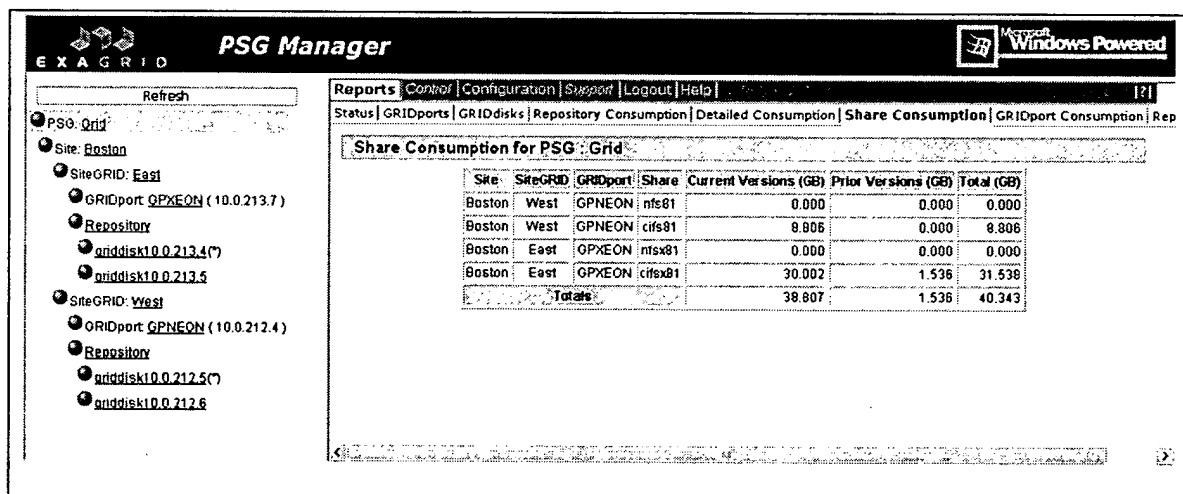


FIG 6: Capacity per share chargeback reporting

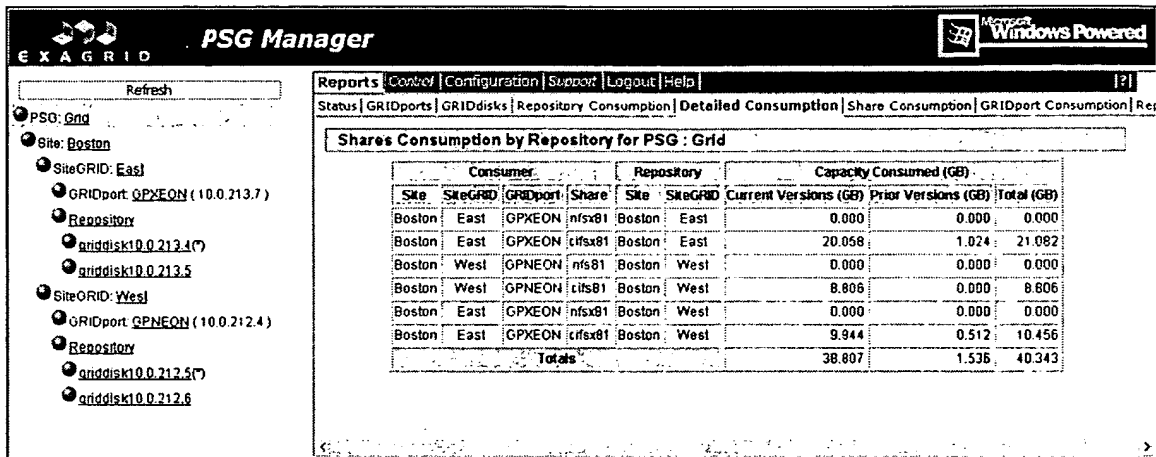


FIG 7: Capacity per share per repository reporting

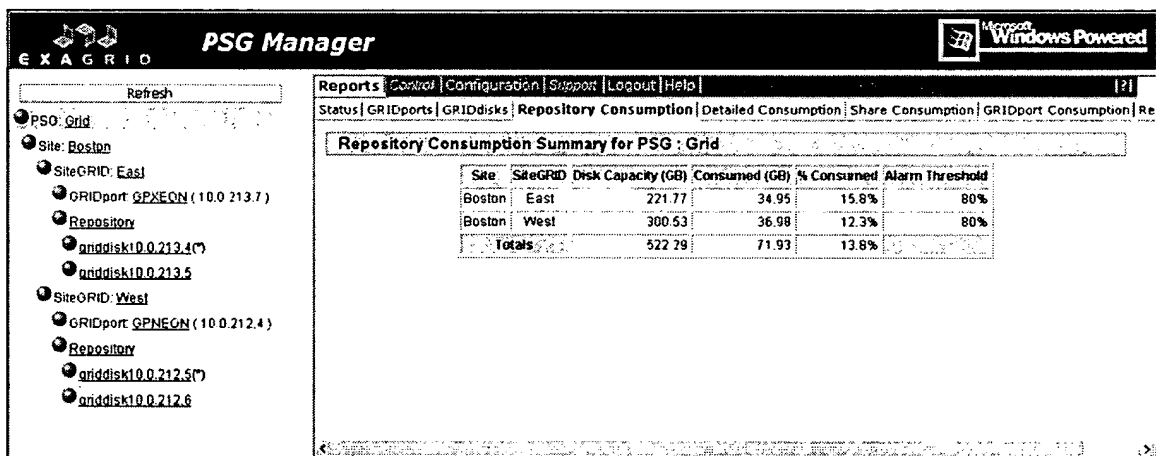


FIG 8: Capacity per repository reporting

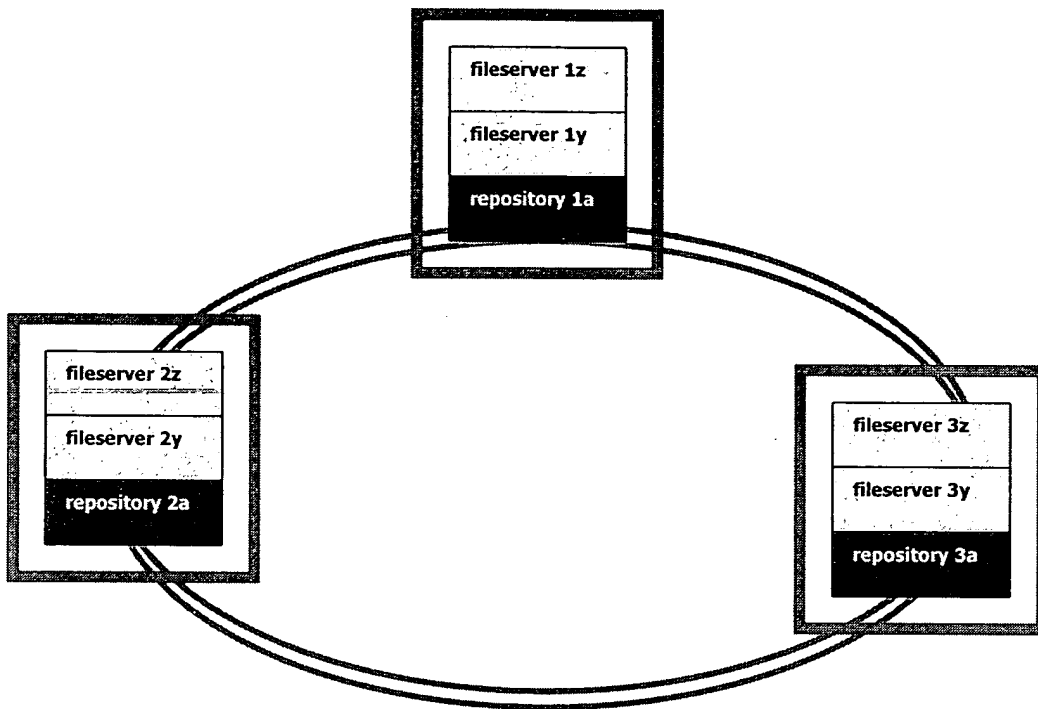


FIG 9: The present invention used as collection of distributed NAS servers, with complete local and remote data protection

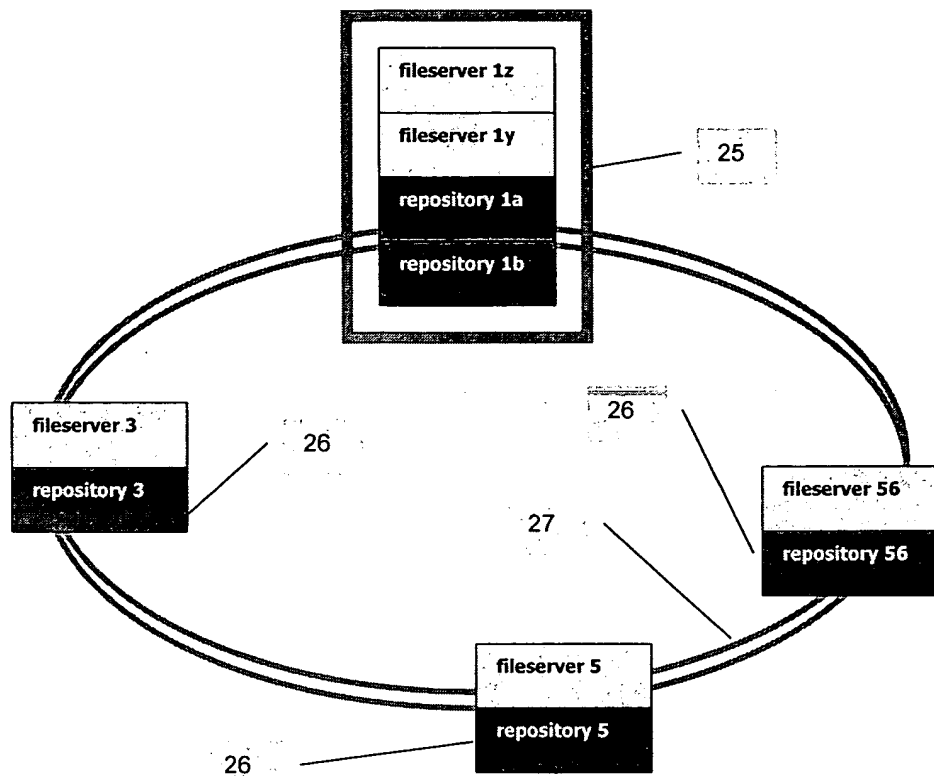


FIG 10: The present invention used in a corporation with a centralized data center and multiple remote offices

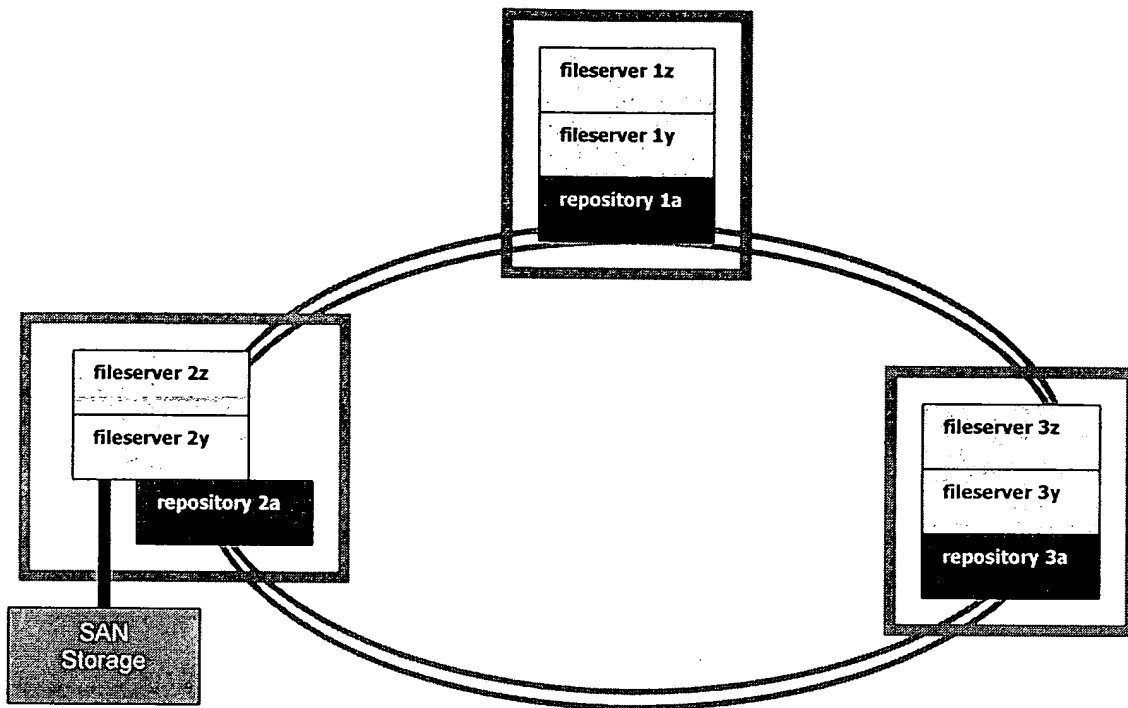


FIG 11: The present invention used to provide tiered storage services for existing SAN storage

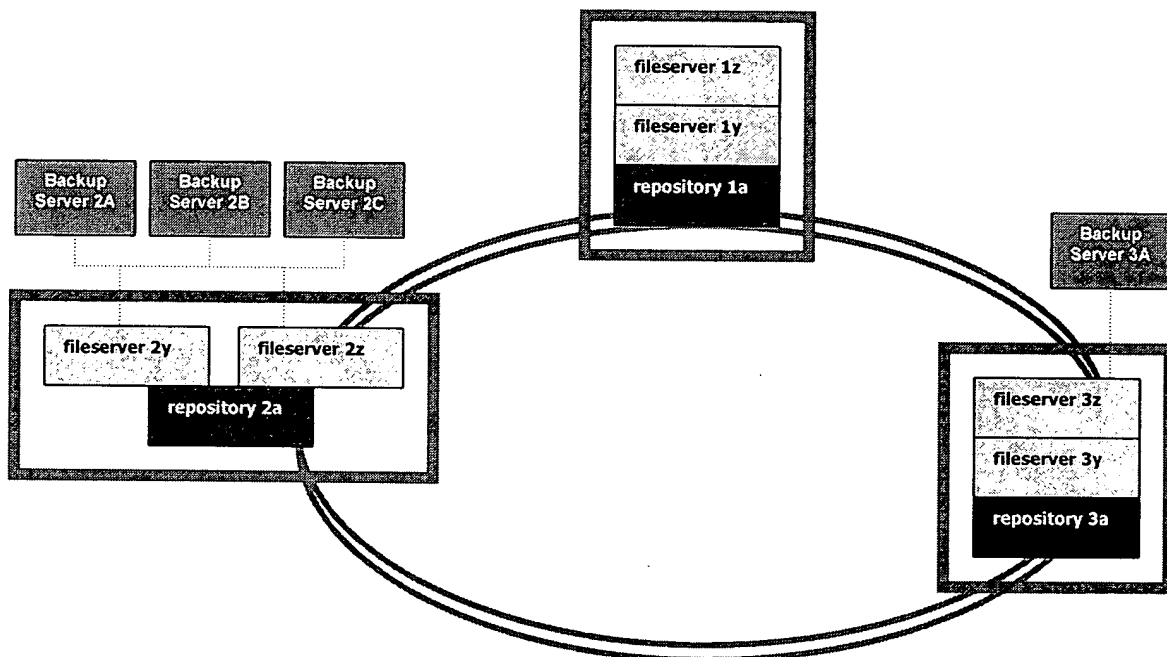


FIG 12: The present invention used as a replacement for tape drives and tape media for traditional backups



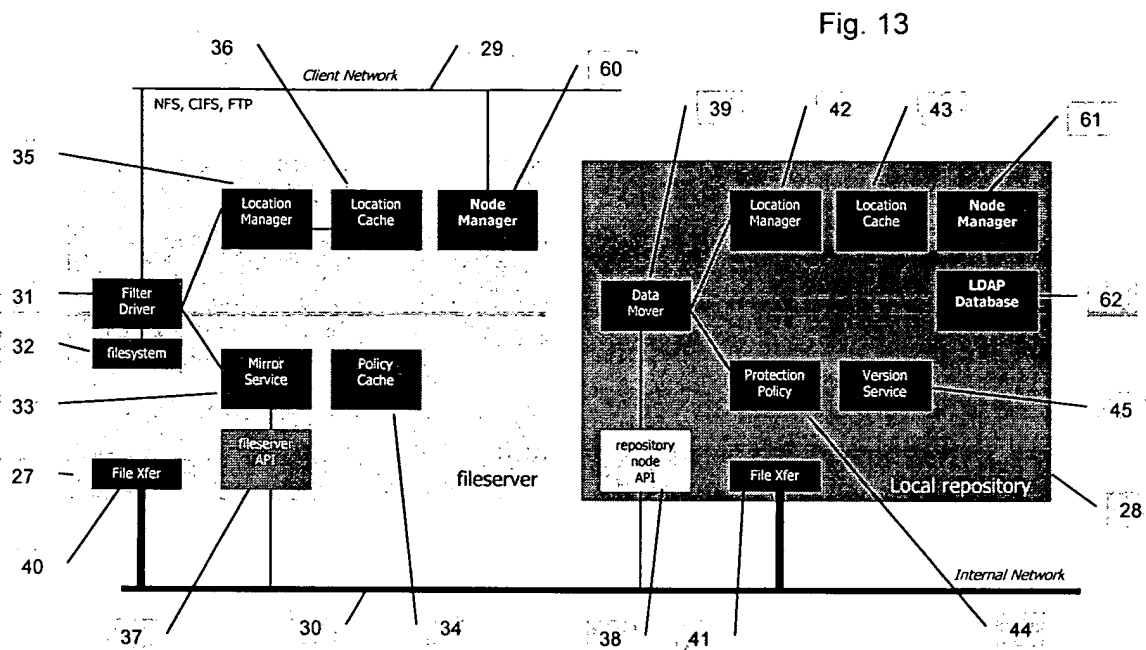


FIG 13: Apparatus and software components that are used to protect new client data to a local repository node

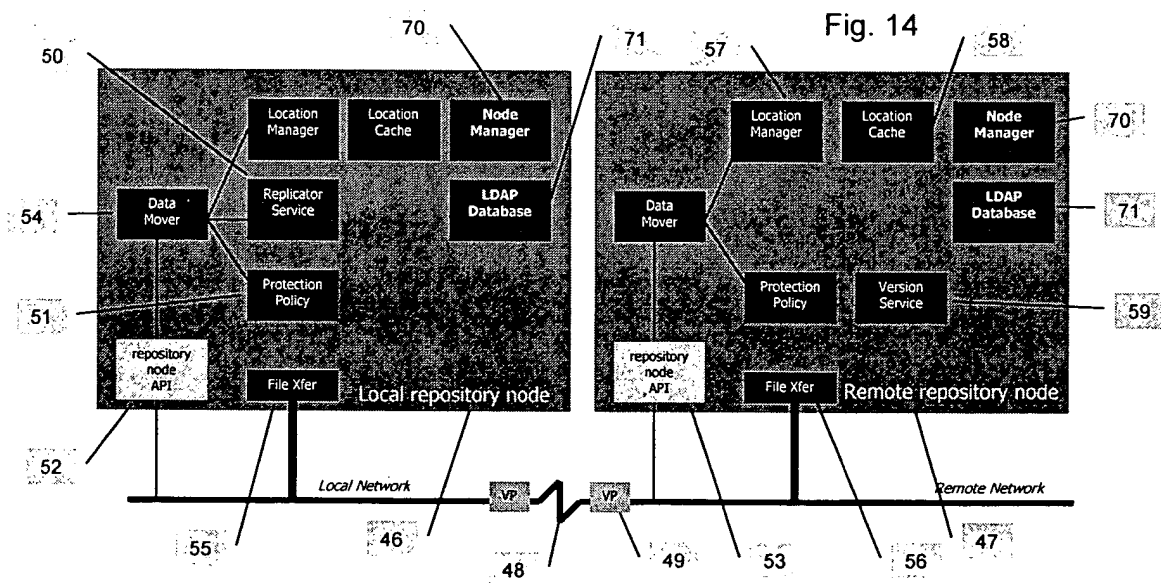


FIG 14: Apparatus that replicates data among repositories

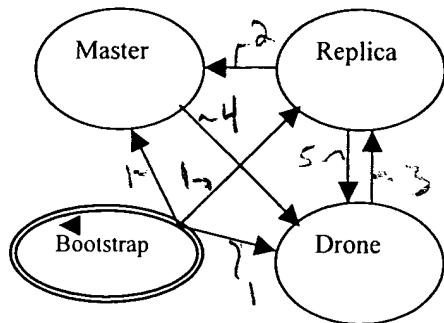


FIG 15: Node Manager Roles and state transitions